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Passed March 24th 1827
W. L. H.

Mr. Inaugural Dissertation
on
Hysteria & Dipsy of the Chest
For the degree of Doctor of Medicine!

By Hugh Houston,
of
Alabama.

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Hydrothorax.

Hydrothorax as the etymology imports is a pleural, or morbid accumulation of a serous or watery fluid within the chest.

There is, some variety in the forms of this particular species of dropsy, according as the fluid is effused into the cellular texture of the lungs themselves, constituting anasarca pulmonalis; into the pericardium, called hydropericardium; encysted in an adhesions membrane, denominates hydrothorax; or as it floats loosely in one or both of the sacs of the pleura or cavities of the thorax, and it also exists as a part of universal dropsy.

But since the symptoms are but little modified by these varieties, and they all admit pretty nearly an identity of treatment, I shall not attempt at any discrimination, but merely give an outline of that form, in which the fluid floats in one or both of the cavities of the chest.

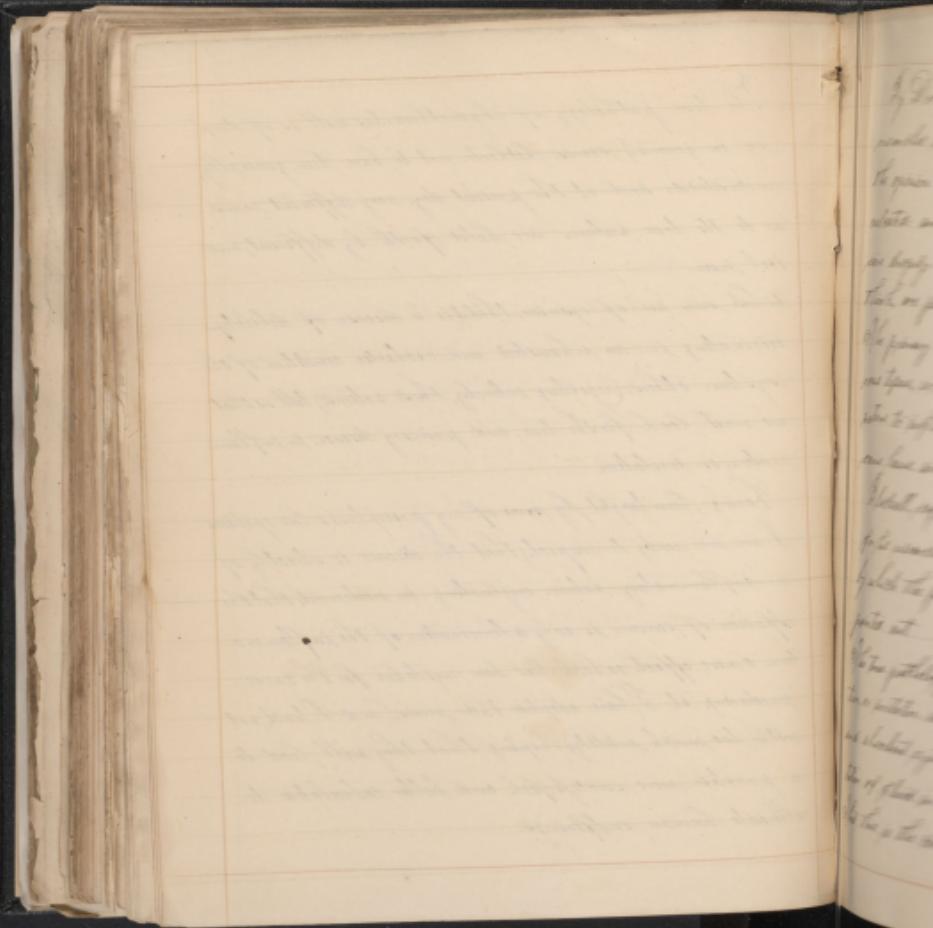
Having nothing preliminary to offer, I shall commence by making a few remarks on the pathology and causes of the disease.

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The true pathology of Hydrocephalus, as well as of dropsy in general, seems hitherto not to have been generally understood; and at the present day, very different views as to the true nature are held forth by different medical men.

While, some are of opinion, that it is a disease of debility originating in an exhausted and enfeebled condition of the system; others (rejecting entirely these notions) tell us that we must look for the true and primary disease, in inflammation, or irritation.

Having been taught by some of my preceptors (whose opinions I am ever ready to suspect,) that the disease is strictly of an inflammatory nature, originating in exudation, that the effusion of serum is only a termination of the inflammation, a mere effect which has been mistaken for the cause producing it, I have adopted their views. (and I trust, not with too much avidity,) hoping that they will lead to a practice more successful and better calculated to alleviate human suffering.



By Dr. Joseph Higley, who has recently published his researches into the pathology and treatment of dropsy, the opinion of its inflammatory character is strongly indicated; and his reasonings against the picture of profuse dropsy, as far as I am acquainted with them, I think, are pertinent and satisfactory.

The primary disease, says he, is a morbid state in the excretive tissue, which is proved to be very closely allied in its power to inflammation, by its being governed by the same laws, and attended by the same phenomena.

Blackall, says Dr. Higley, is intitled to much credit for his researches into the state of the urine in dropsy, by which the particular diathesis of the system is pointed out.

The true pathology of hydrocephalus appears to be inflammation, or irritation, disturbing the balance between the excretant and absorbent systems, and thereby occasioning an accumulation of fluid in the chest, which is termed hydrocephalus. That this is the correct pathology of the disease appears

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to be produced by its several phenomena, and also by post mortem examinations.

In health there is continually exhalation from the paroxysms of the thorax, (as well as from those of the other cavities) a fluid which serves to lubricate its surface, and is essential to the performance of its healthy functions; but being removed paroxysmally by the exhalants, there is no postmortal accumulation, and all is harmony and health; but this due balance which naturally exists between these ~~involved~~ ^{involved} systems being destroyed, there is discord and disease, a postmortal collection of fluid, and its consequent ed.

This balance between the exhalant and absorptive systems may be destroyed, it is said, by a postmortal increase of the action of the exhalants, by a diminished power of the absorvents, or by both of these causes conjoined, but I am taught to believe, that an increased action of the exhalants, is generally, if not always, the cause of the loss of balance.

Hydrocephalus may be idiopathic or symptomatic; and produced

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from a local or general cause - the nature of the inflammation being the same in both cases. It may be because he develops into an acute and chronic form. When the disease is symptomatic and arises from a local cause, it is generally chronic; as when it proceeds from a disease of the lungs or heart.

Whatever the excitement producing hydrocephalus, is idiopathic and independent of an organic disease of the lung & head, its remote causes may be either of a general or local kind, and are the same which produce, when applied in a higher degree, or under different states of the system, the other forms of inflammation. Now I speak from what I have, can judge. I would say, that the most frequent among the remote causes of the disease, is an intercurrent attack of cold, spirits and its attendants, such as exposure of many species.

Inflammation, particularly from the suppuration of securuncial incisions, is not unfrequently a cause of hydrocephalus; of this I am prepared to testify, having witnessed several cases of the kind.

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I have known in very few hours from the suppession of colic
the diarrhoea, all the symptoms of hydrothorax come on, and terminate
fatally in a very short time. From the amputation of a limb
which had been for sometime in a discharging condition.
I have known such symptoms as are indicative of a collection of
water in the chest come on, and carry off the patient.

These discharges, having become habitual, and the matter discharged
being redundant when prevented from escaping by one outlet, it is
only diverted from its course, and falls upon the weakest part
of the cells for an escape.

We sometimes have hydrothorax resulting from the stitching in of
the scutellum, speckled fever, measles, &c. Any thing that
gives to the fluids a centripetal direction, may produce hydrothorax.

I shall in the next place endeavor to enumerate the more prominent
and frequent symptoms of this disease.

Insensible of my inability to arrange these with any accuracy of
order, or according to their more common occurrence. I venture on the
task with considerable diffidence, but I must be content with

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binding them together in as suitable a manner as I can.

Unhappily both for patient and practitioner the symptoms of this disease are generally insidious and obscure until it advances considerably, till it has attained a point beyond the reach of remedial agents; to this in part may I think be attributed its unmanageable character and fatal termination.

It generally comes on with a sense of weight and dull pain at the precordia, with tetraplegia, which is much aggravated by any increase in moderate or unusual exercise. The countenance is at first florid with eyes suffused and watery, but in the course of the disease becomes pale and pecculiform, with edema of the inferior extremities.

The skin in the recent stage of the disease is dry and grossish, but as the disease advances, becomes cold and flaccid. The pulse in the commencement is generally hard, quick, strong and full, afterwards becoming small, frequent and irregular, yet continuing tense and active. Starting from sleep with anxiety and palpitation of the heart, pale visage, with occasional syncope.

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When one side only is affected, rest relief is afforded by reposing on that side. The urine is scanty and highly coloured, depositing on cooling a red-coloured sediment. The patient generally complains of intense thirst, is unusually sensible to cold, and generally troubled with a cough which is at first dry, but afterwards attended with an expectoration of thin mucus, with difficult deglutition. Not infrequently there is a sense of pain and heat about the junction of the deltoid muscle, with stiffness of one or both wrists, extending from the region of the heart.

As the disease advances, the difficulty of breathing is increased, so that the patient cannot remain in the recumbent posture for any time, but the head and shoulders must be supported erect.

The sleep is frequently interrupted by alarming dreams, out of which the patient quickly starts, with a sense of impending suffocation, resembling partly, nearly an attack of spasmodic asthma. The pulsations of the heart become more frequent and violent, and are excited by non-trivial causes.

In this condition the patient is under the necessity of continuing,

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with with the mouth open and gasping for air, his face and hands are pale, his pulse full and very intermitting. The lips are livid, clamping sweats break out, nose and skin not uncommonly alburnous this stage of the disease.

The expectoration is at this stage very often bloody, now and then a sensation of water floating about can be distinctly perceived by the patient or attendant on any sudden change of posture, this is a very decisive symptom, but when without there can remain no doubt as to the true character of the complaint. Examination by the aid of the stethoscope is a very good mode of ascertaining the existence of dryness of the chest, also by occasion, the patient being in the most posture, another small, it is posture upon the abdomen which greatly increases the sense of suffocation.

Dr. Dugay remarks, that the definition of the disease, as given by nosologists, is pathologically incorrect, as referring rather to the effect of the disease, than to the disease itself, i.e. that the symptom, strictly speaking, pertains only properly to the true disease existing as they do from a certain disturbance given to the lungs.

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by the presence of water upon them. Post mortem examinations frequently discover traces of inflammation, and always an accumulation of more or less of fluid in the chest, which is sometimes contained in the cellular texture of the lungs, sometimes in the pericardium, cysts in an adventitious membrane, and, sometimes, floating freely, in one or both of the cavities of the heart.

The quantity of water varies considerably, there being, sometimes only a few ounces, and at other times, several quarts. The lungs are found compacted and reduced in size, according to the quantity of water of fluid. The fluid is generally of a yellowish color, and possesses properties analogous to serum.

The diagnosis of hydrocephalus is, sometimes, very difficult, so much so that the most intelligent and experienced physician is held to be unanswerable, and is frequently unable to determine on the precise nature of the disease. The diseases with which it is said to be confounded, are asthma, impyema, angina pectoris, and engorgement of the heart. Distinguishing it from these, the practitioner must attend diligently to the symptoms, and, institute a strict inquiry into the related history of the case.

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It may be distinguished from asthma, by symptoms attending the former, that do not attend the latter, and vice versa. In the former, we have a general pneumo-plegmatic appearance. The voice is, scarce and, high & hoarse, with fits or paroxysms occurring at irregular periods, and sometimes fluctuation is perceptible. In the latter, we have fits of spasmodic asthma, with a whizzing respiration. The noise of lungs in the commencement of a paroxysm in considerable quantity, is without colour and intermission.

The symptoms of acute pneumo-plegmatic inflammation terminable in suppuration, these are generally cold, shiverings, and after a time, hectic, symptoms upon which do not attend by themselves. There is generally considerable difficulty experienced in distinguishing pneumo-plegmatis from angina nostraria, or organic affections of the heart, we can only distinguish in these nearly, by strict attention to the whole of the symptoms of the several diseases.

The progress of hydrocephalus, should be given with caution, as it is frequently happens suddenly, when the patient, to all appearance is robust and commanding the physician, and subduing the furies of death. It is acknowledged to be one of the most dangerous and incurable diseases.

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form of dropsy, its poison, indeed, has it been cured. That, for many it has been considered as constituting, one, in the catalogue of the *probria medicorum*. In many cases it will not even admit of alleviation, terminating fatally in a very short time. Though in some cases the difficulty of breathing gradually increases, until the action of the lungs is entirely impeded by the accumulation of fluid.

From what I have reported as my opinion in regard to the nature and pathology of hydrocephalus, it might be inferred that I would commence the treatment with the antiphlogistic plan in its fullest extent. Respiration is undoubtedly one of the most important remedies in the early out stage of the disease, and in patients of a full and plethoric habit, indispensable. It, should be carried as far as is consistent with the safety of the patient.

In the management of the disease under consideration, the state of the system should never be lost sight of, and to regulate it, nothing is equal to blood letting, it removes congestion, subdues inflammation, and restores that just equilibrium which is so essential to health, procuring thereby one of the most powerful means of removal of respiratory accumulation; and removing the immediate cause, it also prepares the way for the respiration of

conservative remedies. The extract of portch employed at the same time with the laudanum contributes not a little to reduce a tumour, and is certainly an excellent adjuvant. The cream of tartar is also used during the violent state of the system, to answer the same indication as the preceding remedy. Emetics are, sometimes employed with the view of relieving the lungs, from accumulations of mucus, but they are generally considered of doubtful utility.

Purgatives are prohibited in all diseases of the breast, and it is said to be sufficient to keep the bowels in a soluble state, by mild laxatives. I have, however, known that they may be given much, without any injury, and in fact, with decided benefit. Doct^r Agar prizes them pretty highly.

Topical blisters, by cups applied to the back or between the shoulder-blades, or to the side, is very serviceable. These remedies act upon the principle of resolution or derivation, and tend greatly to relieve the local congestion or inflammation, after the general inflammation of the system has been, sufficiently, subdued by the preceding remedies.

We next employ purgations. These constitute a very violent set of reme-

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ide, & plaster, sufficiently large to cover completely the breast, should be applied, and removed as soon as it bleeds, or begins discharging, by stimulating, suddenly. These pencils direct the course of the fluids, and prevent further effusion, & lessen that which has already taken place. A plaster to the side is also very serviceable.

In speaking of the employment of the lancet, I shall, not have omitted to mention, that we very frequently meet with cases, in which it cannot be used with much freedom, but requires to be employed with judgment and caution, as in those of the ulcerated and interporous. The constitution in these cases is always more or less inveterate, though the pulse may indicate a contrary condition, and if blood be partly freely detracted, the probability is, that the system will not react, and the patient will sink, in consequence of the loss of a too numerous, stimulus. This fact is well established by experience.

These cases are to be managed by topical bleeding and fomenting, and afterwards, by such remedies as will have a tonic power.

After the remedies which have been enumerated, have been carried to the proper extent, the next thing to be done, is to remove the plaster.

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it, if there be any remaining in the chest and for this purpose we have
recourse to the class of medicines called diuretics.

In the employment of diuretics, great circumspection is necessary;
and the practitioner must be regulated entirely by the state of the
system, many of the diuretics that are used in syphilis are
of a slow-acting or instant action, and if employed while there is
much inflammatory deposit existing, never fail to depress it.
They aggravate inflammation and some only to lack up more
gradually by the deposit disappears.

This class of medicines appear to be very uncertain in their opera-
tion, having no positive action on the kidneys, but acting on the
different organs or parts according to their different states of sus-
ceptibility, proving alternately diuretic, diaphoretic, or purgative,
and also acting, very often as depressible, stimuli.

When they act on the skin, kidneys or bowels, singly, than in fla-
vor the other organs, is comparatively trifocal, or not at all felt,
as when they prove diaphoretic, they do not with the action
of the kidneys.

In the employment of these medicines to sustain and facilitate

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their operator, we are directed to keep the patient cool, out of heat, and protect in a damp room, or on a damp floor. These rules I do not think absolutely necessary, since the action of the skin and kidneys appears to be peculiar; and if it be most agreeable to the feelings of the patient to be kept moderately warm. I think it allowable, as I have known dandruff acting on the skin to prove highly serviceable, and as exposure to cold, which I believe to be an auxiliary cause of the disease, might increase congestion and inflammation, by determining the fluids to work the external parts.

The first of the remedies which I shall mention is the equal. This antiseptic property tincture is decidedly one of the most active and efficacious of the class, and appears to be in very general use. In the pulse institutions of Philadelphia, it comes pretty near by to have, superseded all other remedies. It is said to be much improved by using it in combination with calomel. This combination should be carried to the extent of a moderate ptomaine. It acts it is said simultaneously on ^{the} kidneys and also on the bowels. The best vehicle is the digitalis. Then this no medicine perhaps in

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the practice medical has maintained a power of惊吓 and protracted character. & till some will it as being a most powerful and efficacious remedy: others, declare it to be just as useless. as far as I have seen it tried it has certainly done good. Professor Chapman ob-
serves that if indeed there be a fail in the practice of physic, so deeply
rooted in uncertainty as not to be disturbed by cavil or disputation,
it is the utility of digitalis to destroy.

A good deal has been said concerning the state of the system to which
it is best suited. By some, it is said to be best suited to those cases
which proceed from a disordered state of ^{the} heart and by others to cases
of intemperance, or to the weak and flaccid fibre.

Professor Chapman remarks that while there is much activity
in the pulse, and a considerable portion of general strength remain-
ing, it will prove insufficient and, perhaps, pernicious.

The article must be used with caution, and the pulse, and condition of
the system, must be closely watched, for it may sometimes be given
to a considerable amount without producing any sensible effect, and
then suddenly displaying its powers, and endangering if not destroy-
ing the life of the patient. The digitalis appears to do good by stimu-

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isling arterial action, and consequently, preventing or diminishing of
fever, when the effects of this medicine are produced. They are
apt to continue for a considerable time, producing depriment of
pulse, debility and a copious flow of urine.

In another singularity, which attends the operation of digitalis,
is the influence which position has over the pulse, the pulse-
tions being much increased by standing, and very much dimin-
ished by lying. In judging of its influence on the system
less circumstances, should be recollects. If, from the use
of this article, any anomalous symptoms appear, it should
be immediately discontinued.

The colchicum autumnale, is said to be a very good remedy in
dropsy, and under certain circumstances. I would certainly give
it a trial in hydrocephalus.

In case of hydrocephalus proceeding from metatarsis, or transla-
tion, from the suppession of accustomed evacuations, as collequa-
tive diarrhoea, discharging ulcers, &c. The great object is to re-
stablish the original discharge or disease. when proceeding from the
suppession of collequative diarrhoea, the active hydragogue purge

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two should be immediately resorted to, and it is, sometimes necessary, to call to their aid bloodletting, general and local, aperienting, when from the suppression of uterous discharge. They should be established by the employment of opium, ipecac, or the employment of stimulating or irritant applications.

and when from repellent vaudoumata. The uterous disease must be restored; and for this purpose, we resort to the warm bath, bleeding, and, in some cases bloodletting, general and local; emetics in these cases are sometimes very beneficial.

In equine cases or such as are fitly to be compared with malady of the functional school of the heart, a combination of equal, calomel and digitalis generally answers very well, the equal and calomel, constipating, as I have already said, an equal remedy in hysterism and the digitalis, purifying, more than any other medicine in afflictions of the heart.

In regard to the use of liquids in dropsy, there has been a great deal of writing; but ^{the} physicians are pretty generally agreed as to their utility and allow them to be taken ad libitum. They say that intemperance, which is always so destroying, and prove

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greatest assistance to the doctor, medical I have met with I believe,
the leading remedies in the treatment of Hydrocephalus. I shall have
you content myself; though I am aware that there are many
others that are employed successfully, and should by no means
be overlooked in practice. what I have said on the subject will
no doubt, be sufficiently forcible to the reader.

I am sensible that I have digressed, and intended my remarks
beyond the proper limits of my practice, in entering into the
medical arguments of the few remedies of which I have spoken;
but I hope (with a degree of sanguinity) that these, times will
fall into the hands of those who are not unwilling to return
evidently to the unimportant, naive, and, humble student.

I must have done that what I have said on this, subject, is
entirely erroneous or incomplete, having had no experience. (Save
you, not to an original writer) I have been compelled to make so
troublous to do. I fear I have done incorrectly. Though now
as I am of experience, I feel a hope that I have made, some ad-
vancement towards acquiring a knowledge of the principles
of the science; if not, it has been owing entirely to my own

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discrepancy. The extensive field, the ample and unparalleled advantages
held forth and intended from the university of Pennsylvania. & the
standard of medicine, cannot compell me to acknowledge, and yet
withstanding the objections (factual and unfeigned) which are
urged against it, and the rivalry which is springing forth upon
various quarters. I am firmly persuaded, that it will remain unshak-
able and imperishable. The high reputation which it has hitherto sus-
tained, and ^{the} very distinguished talents with which it is at pres-
ent adorned, bid very fair to waft it far above all opposition
and support its pre-eminence.

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